Figure 1 - Basic Bit Interleaved Filter
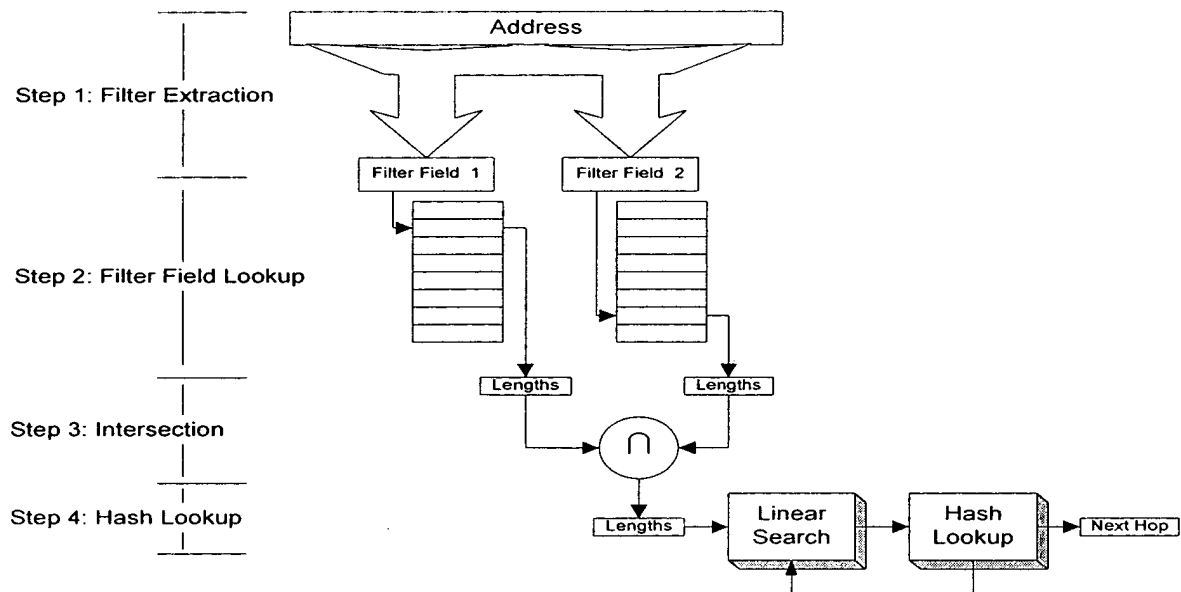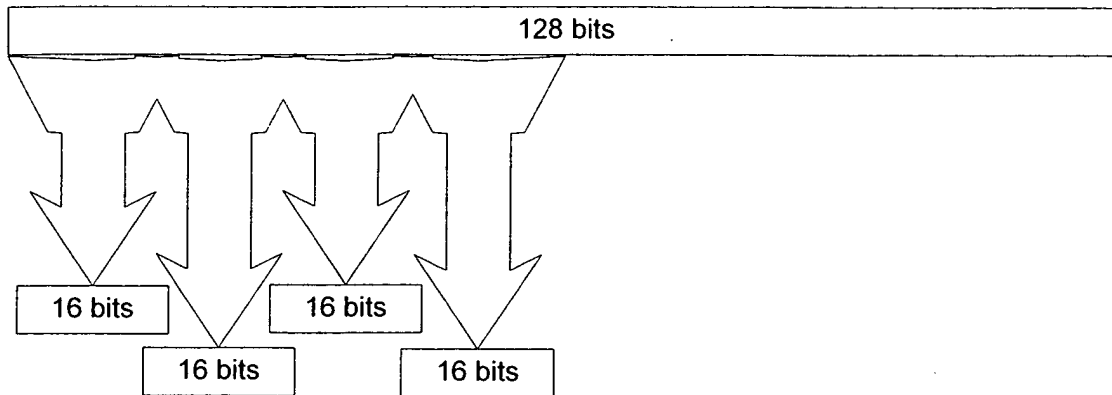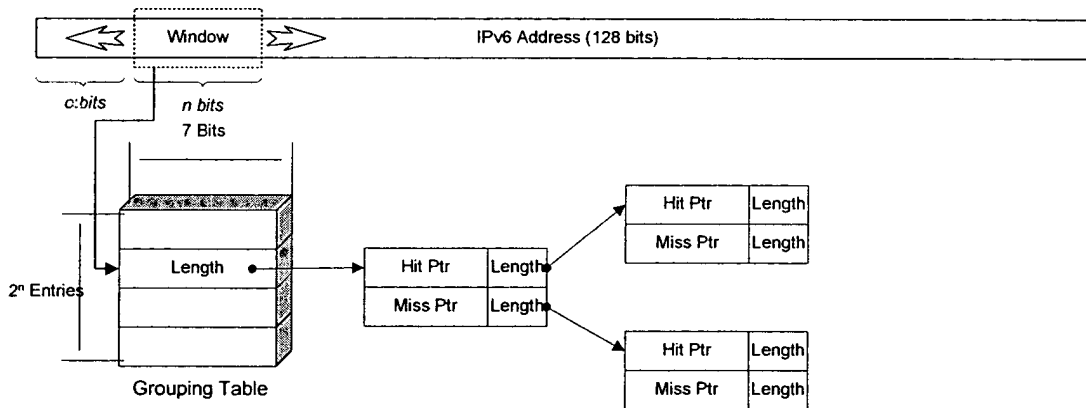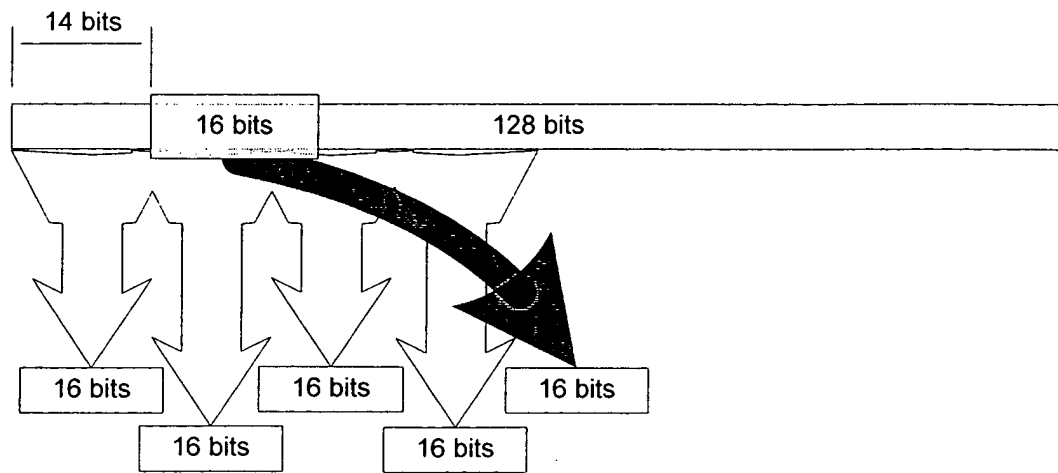

Step 1: Filter Extraction

Step 2: Filter Field Lookup

Step 3: Intersection

Step 4: Hash Lookup

Address

Filter Field 1   Filter Field 2

Lengths   Lengths

∩

Lengths   Linear Search   Hash Lookup   Next Hop

Figure 2 - Complete Lookup

Figure 3 - IPv6 Basic Filter

Figure 4 - Algorithm Using Ideal Offset

Figure 5 - Additional filter based on the ideal offset